

## Developing and Deploying AI/ML Applications on Red Hat OpenShift AI (AI267)

**Varighed: 3 Days    Kursus Kode: AI267    Leveringsmetode: Company event (Firmakursus)**

### Beskrivelse:

#### **An introduction to developing and deploying AI/ML applications on Red Hat OpenShift AI.**

Developing and Deploying AI/ML Applications on Red Hat OpenShift AI (AI267) provides students with the fundamental knowledge about using Red Hat OpenShift for developing and deploying AI/ML applications. This course helps students build core skills for using Red Hat OpenShift AI to train, develop and deploy machine learning models through hands-on experience.

This course is based on Red Hat OpenShift ® 4.14, and Red Hat OpenShift AI 2.8.

**Note:** This course is offered as a 3 day in person class, a 4 day virtual class or is self-paced. Durations may vary based on the delivery. For full course details, scheduling, and pricing, select your location then "get started" on the right hand menu.

### Course Content Summary

- Introduction to Red Hat OpenShift AI
- Data Science Projects
- Jupyter Notebooks
- Installing Red Hat OpenShift AI
- Managing Users and Resources
- Custom Notebook Images
- Introduction to Machine Learning
- Training Models
- Enhancing Model Training with RHOAI
- Introduction to Model Serving
- Model Serving in Red Hat OpenShift AI
- Introduction to Workflow Automation
- Elyra Pipelines
- KubeFlow Pipelines

### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

### Målgruppe:

- Data scientists and AI practitioners who want to use Red Hat OpenShift AI to build and train ML models
- Developers who want to build and integrate AI/ML enabled applications
- MLOps engineers responsible for installing, configuring, deploying, and monitoring AI/ML applications on Red Hat OpenShift AI

### Agenda:

#### **Impact on the Organization**

- Organizations collect and store vast amounts of information from multiple sources. With Red Hat OpenShift AI, organizations have a platform ready to analyze data, visualize trends and patterns, and predict future business outcomes by using machine learning and artificial intelligence algorithms.

#### **Impact on the Individual**

- As a result of attending this course, you will understand the foundations of the Red Hat OpenShift AI architecture. You will be able to install Red Hat OpenShift AI, manage resource allocations, update components and manage users and their permissions. You will also be able to train, deploy and serve models, including how to use Red Hat OpenShift AI to apply best practices in machine learning and data science. Finally you will be able to create, run, manage and troubleshoot data science pipelines.

### Forudsætninger:

- Experience with Git is required
- Experience in Python development is required, or completion of the Python Programming with Red Hat (AD141) course

- Experience in Red Hat OpenShift is required, or completion of the Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288) course
- Basic experience in the AI, data science, and machine learning fields is recommended

#### Technology considerations

- No ILT classroom will be available

### Yderligere Kurser:

#### Recommended next course or exam

- Red Hat Certified Specialist in OpenShift AI Exam (EX267)

#### Indhold:

Introduction to Red Hat OpenShift AI	Custom Notebook Images	Model Serving in Red Hat OpenShift AI
Identify the main features of Red Hat OpenShift AI, and describe the architecture and components of Red Hat AI.	Creating custom notebook images, and importing a custom notebook through the Red Hat OpenShift AI dashboard	Serve trained machine learning models with OpenShift AI
Data Science Projects	Introduction to Machine Learning	Custom Model Servers
Organize code and configuration by using data science projects, workbenches, and data connections	Describe basic machine learning concepts, different types of machine learning, and machine learning workflows	Deploy and serve machine learning models by using custom model serving runtimes
Jupyter Notebooks	Training Models	Introduction to Data Science Pipelines
Use Jupyter notebooks to execute and test code interactively	Train models by using default and custom workbenches	Create, run, manage, and troubleshoot data science pipelines
Installing Red Hat OpenShift AI	Enhancing Model Training with RHOAI	Elyra Pipelines
Installing Red Hat OpenShift AI by using the web console and the CLI, and managing Red Hat OpenShift AI components	Use RHOAI to apply best practices in machine learning and data science	Creating a Data Science Pipeline with Elyra
Managing Users and Resources	Introduction to Model Serving	KubeFlow Pipelines
Managing Red Hat OpenShift AI users, and resource allocation for Workbenches	Describe the concepts and components required to export, share and serve trained machine learning models	Creating a Data Science Pipeline with KubeFlow SDK

## Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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